

# THE PLOTTER

CLACKAMAS COUNTY AREA T/S  
USERS GROUP  
NEWSLETTER

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VOLUME 2, NUMBER 8&9  
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## MEETINGS

Here we are again! Back for September and another great (at least we hope great) issue of the PLOTTER.

Our August meeting was held on Thursday, August 2, 1984 in Room 101 of the Community Center on the CCC campus. The meeting was called to order by Rick Read, President, at 7:30 P.M.. He went over old business, new business and general information.

The Secretary/Treasurer's report was given.

Old Business: We re-affirmed our commitment to order any GOOD T/S related publications. We are now receiving ZX COMPUTING, and K-POWER (to replace T/S USER). We decided to order T-S HORIZONS and SINCLAIR COMPUTING. We decided not to order additional subscriptions to SYNTAX as we do not consider the information derived from it to be worth \$48/yr. Even at \$29/yr we thought it high for a newsletter. The consensus was that T-S HORIZONS at \$12/yr, and SINCLAIR NEWS at \$16.95/yr are much better investments.

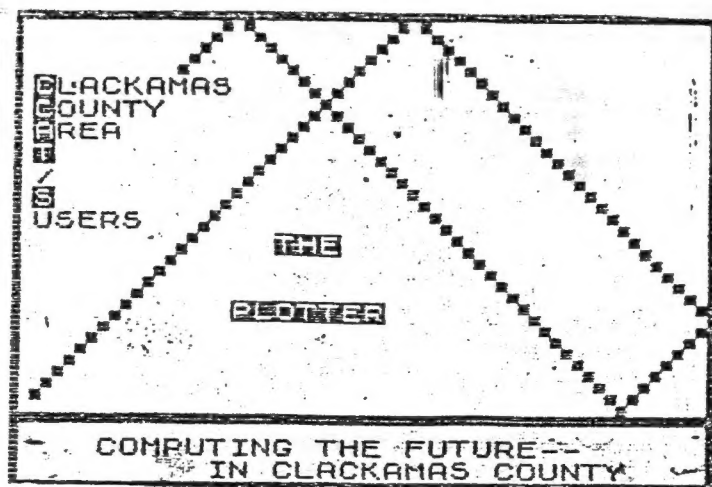
New Business: We had a few minutes of discussion regarding what could be done with some of the uses for the money in our treasury. Nothing was decided. More at the next meeting.

The next meeting will be held:

ON: Thursday, August 6  
AT: 7:30 P.M.  
IN: RM 142, Clairmont Hall  
CCC

Our old regular room.

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After the meeting, we adjourned to look at and test the Modems, the BB MD-2B, the BB MD-68, the Westridge 2050 and their related software. Most of those who looked were impressed with the performance of one or the other.

We would like to mention that the Portland Area T/s Group still meets the second Saturday of the month. Call Kevin Fowler for details if interested, at 253-0844.

SEE YOU AT THE MEETING\*\*\*  
BRING YOUR QUESTIONS\*\*>

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## BITS and BYTES

Lots of news this month!!

\*Some sad news, Stuart Lotwin, the President of Westridge Communications, died the first week in August. The company has made no shipments since but they say things will resume shortly. The family plans to continue his work. Our sympathies are with the loved ones.

(cont. next page)

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\*The TIMEX ADVANCED TECHNICAL MANUAL is now in the Library for use by members. It will be available for you to look at after the Sept. meeting. We are not going to let it be checked out until one week after the meeting so as to let as many people as possible see it to decide whether it would be worth ordering one of their own. For further information call the Library at 655-7484, between 7 and 10 P.M..

\*With all of the modems now available for our computers, there are new BBS systems popping up every week. We now have the following BBS numbers:

National:

Zebra Systems BBS-  
(212) 296-2229  
24hrs/7days

Smart BBS-  
(304) 652-1416  
24hrs/7days

Phoenix BBS-  
(302) 734-0179  
9 PM- 6 AM PDT Weekdays  
24hrs Sat. Sun.

Compuserve- CEMSIG 450  
(COMPUTER & ELECTRONIC  
MAGAZINE SPECIAL INTEREST  
GROUP)  
232-1072 ANYTIME  
(must have ID & Password)

Hope these will be of use to those of you with modems. For a list of local BBS numbers, watch next month.

\*We have some members of our group have ordered Tasword II and we hope to have a review of it next issue.

\*In case you have recently tried to get TIMEX on the 800 number, you could not talk to anyone. They have discontinued the toll free information line as they have sold the ENTIRE INVENTORY to a New York liquidation firm. We can only wait to see what this will mean to the future of our supply of s/w and h/w. One thing is certain, they will probably be sold out cheap!!

\*From T-S HORIZONS we hear that the E Arthur Brown Co. in Minnesota will be the distributor for SINCLAIR in the U.S.. We hope that this is true, but have our doubts. It would mean that a lot of software would become available in this country along with the ZX81 and the Spectrum, not to mention the QL.

\*Be sure to look into our growing collection of newsletters that we receive from other user groups around the country. We are now receiving about 15 newsletters in our exchange program. Take the time to look, we get a lot of news, programs, articles and reviews from these people. Most of them do not mind that we reprint some of their information.

\*Please note: We want to be sure that you are aware of the fact that we have put most of the ads that the group has been receiving from various sources into a binder for you to look at after the meetings. If there is something that you wish more info on, just jot down the address and write them. Some of these ads may not be seen by many of you, as we are not all on all mailing lists. Just another service from your group.

\*As you know by now, the TASWORD II word processor is available for your 2068. There are a couple of other 64 column word processors around now. 21st Century Electronics, Guttenberg, NJ, has one called MSCRIPT. This one works with the AERCO IF. Another one is the TEXTWRITER 2000 which also works with the AERCO IF. We have received word that the AERCO IF will now work with TASWORD II. Good news for all of you who would like to use the WP with an 80 column printer.

\*NOTE: Our P and R column is back after a couple of months off. Hope you enjoy it. What we really need are more people to write and contribute original short programs for us to print. Come on people! I know that there are a lot of you out there playing (oops, I mean working) with those machines and must have a few good little routines roaming around in your heads that could be of use to the rest of us out here. At the very least, we may pick up some useful tips from your routine. Thanks for your help.

\*By the way, Westridge says that the STERN II software for your 2050 Modem should be available around the first week in Sept. We hope they can keep to the timetable.

\*BYTE BACK has set approximately the same time for the release of their SMART TERM software. This will upgrade the MD-68 Modem to work the same as the MD-2B.

\*Our Library has received quite a few new books in the last month. Some were donated and some were purchased by the group from the Howard Sams Co.. There are now two(2) copies of the

BEGINNER-INTERMEDIATE GUIDE TO THE 2068 in the library along with one copy of THE WRITE GROUP'S BASIC PRIMER W/GRAPHICS, one copy of TIMEX SINCLAIR 1000/ZX81 USER'S HANDBOOK, and one copy of THE ZX81 BASIC BOOK. We hope that these will be of some interest and use to some of you.

#### #AND YET ANOTHER NOTE:

We will discuss it at the meeting, but we want you to be thinking about this before then. There has been a suggestion that we start some sort of SIG (Special Interest Group) to help those of you who might be interested in working with MC (Machine Code). This SIG would meet at a separate time and place in order to allow those interested to get the most from the SIG. Let us hear from you.

Well, we've printed a lot of news this month, but sure as we are sitting here typing like mad, we haven't the time or space to print ALL there is out there. We are bound to miss some of it. We just hope that what we do miss will be picked up by most of you from other sources. We try to print that which directly affects our group and that which seems most important. Enjoy and keep reading.

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## ZX/TS P and R

This month we are back with our P and R column after a couple of months off. Our 2068 program and our 1000/ZX81 program are both from Dick Wagner. They were not both given to us at the same time, but sooner or later we do use most of what comes our way. If you have sent in material and have not seen it in print as yet, don't give up hope, it will be resurrected to see print in the future.

Meanwhile, maybe you can make use of the routine below to check and correct your inputs on a long MC program. It just might save a lot of time and eyestrain for a lot of you.

The 1000/ZX81 program is a short UP program for those of you who do not have a 2000 and would like to use your computer in a very limited way for word processing.

TRY THIS SHORT JORD PROCESSOR FOR THE 1000 COMPUTER. IS SELF-STARTING SO BREAK IT WITH EDIT, STOP AND ENTER TWICE. YOU WILL THEN GET INSTRUCTIONS IN REM STATEMENTS.

1 REM "TEXT EDIT" FROM DENNIS JURRIE'S EARLY LIBRARY, REVISED BY DICK WAGNER.

2 REM USE SHIFTED 5,8, AND 0 TO MOVE THE CURSOR FOR EDITING IN THE USUAL WAY.

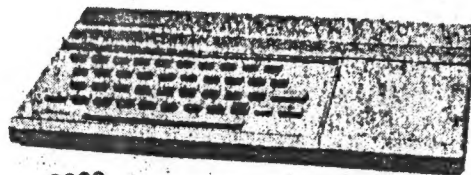
5 REM BEST TO COPY EACH PARAGRAPH AS THE SCREEN GETS SLOWER WITH LONG DISPLAYS.

6 REM LPRINT WITH ANY OF THE CHARACTERS SHOWN ON LINE 50. USE ENTER TO LPRINT.

8 REM DELETE LINE 95 IF SELF-STARTING IS NOT WANTED.

```
10 FAST
15 INPUT A$
20 IF LEN A$ > 32 THEN GOTO 35
25 LPRINT A$
30 GOTO 15
35 LET C=0
40 IF C=0 THEN GOTO 65
45 LET B$=A$(32-C)
50 IF A$(33-C)=" " OR B$="," OR
   B$="." OR B$=":" OR B$=";" OR
   B$="?" OR B$=CHR$ 11 THEN GOTO 7
```

```
0
55 LET C=C+1
60 GOTO 40
65 LET C=0
70 LPRINT A$(1 TO 32-C)
75 LET A$=A$(33-C TO )
80 IF A$(1)=" " THEN LET A$=A$(2 TO )
85 GOTO 20
90 SAVE "TEXT EDIT"
95 GOTO 5
```



2068

### SOLVING A MC LOADING PROBLEM Dick Wagner

When you have a long machine code input to make into 1 REM try this suggestion from Gordon Young, author of "Build Your Own Spreadsheet" (SYNC J/F 1984).

He has a good assembler program in this article, almost error proof. After entering all numbers (6 columns and 60 lines in this program) and running a checksum test, any error can be determined, and corrected with built-in POKE with the following program. You do not need any address other than 16514, first byte after REM. Built in counters keep track of lines and columns and you need only enter in the correct numbers for those in error.

```

500 LET O=1
510 LET N=16514
520 LET M=1
530 PRINT "ADDRESS: "; TAB
10; PEEK N;
540 PRINT "THIS LINE-";M;
" COLUMN-";O
550 PRINT "IS THIS CORRECT?
(Y/N)"
560 IF INKEY$="Y" THEN GOTO
620
570 IF INKEY$="N" THEN GOTO
590
580 GOTO 560
590 PRINT "ENTER CORRECT
NUMBER"
600 INPUT P
610 POKE N,P
620 CLS
630 LET O=O+1
640 LET N=N+1
650 IF O=7 THEN LET M=M+1
660 IF O=7 THEN LET O=1
670 GOTO 530

```

Keep a running difference of the numbers you correct, based on the checksum. When the sum is correct stop. However if any other two numbers are in error + and - the same amount the checksum will be right so it is best to check the complete list of numbers. The method is fast as a touch of the Y key keeps the program moving until the error(s) are spotted and corrected.

The only changes in this program you may need will be in lines 650 and 660. Change 7 to be one more than the number of columns in your table. Use a straight edge to follow lines.

))))))))))))))

## FROM THE EDITOR'S DESK-

Glad to hear that so many of you in our local group think that we have a good if not great newsletter. We can only try to do our best. Sometimes it gets to be a drag trying to come up with new and interesting news, articles, programs and all the other data required to put this publication together each month. We really DO appreciate a kind word once in awhile. After all the time and effort is donated for the benefit of all. Don't get the wrong idea though, we would not be doing it at all if we were not enjoying it at least a little and we can honestly say that we enjoy it more than a little. If you don't feel that we are doing a good job just let us know, a little constructive criticism never hurts (much).

We want to extend a VERY SPECIAL THANKS to our new EDITORIAL ASSISTANT: Laura Gowen. Not only is she doing a good job with the Library, but now she is becoming

a real capable newsletter editor. Let's all give her a hand for her contribution to the group.

We wish to extend a warm welcome to all of our new readers out there in T/S Computerland. We hope that you are enjoying our newsletter, THE PLOTTER. We want any of you who would like to write to us to contribute material for publication to feel free to do so. We appreciate any written material. We endeavor to give all credit due to whom it is due.

This newsletter is a forum for all who are interested in furthering the use and acceptance of the SINCLAIR-TIMEX line of computer products. Lets make it work for us.

TILL NEXT TIME---

KEEP ON

POKEing and PEEKing>>>##

!!!!!!!!!!!!!!!!!!!!



### T/S HELPLINE

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#### Faster Control

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If you have a long text to edit and you feel like your computer is worn out before it starts,--OR if your laser guns aren't firing fast enough for you,--Try these commands BUT BEWARE!!!

\*\*\*\*\*

POKE 23561,\* (\* = 1 TO 35)  
(I prefer 10 to 15 for Text)

POKE 23562,\* (\* = 1 to 5)  
(I prefer 3 for Text)

For the touch typist this is really a terrific advantage.

\*\*\*\*\*

POKE 23561,\* (\* = 1 to 35)  
(I prefer 1 to 10 for Games)

POKE 23562,\* (\* = 1 to 5)  
(I prefer 1 for Games)

NEED HELP? COMPUTER GOT YOU STUMPED? DON'T GIVE UP!

JUST CALL YOUR FRIENDLY HELPLINE NUMBERS:

655-7484 655-9670  
266-4712



# ARTICLE

## SAVING 2068 PROGRAMS REVISITED

by Dennis Jurries

MC - machine code  
Basic - basic program  
name  
Screen - screen string  
program name

1. LOAD the program until the screen display is displayed then BREAK and LIST. This listing will give you the starting address of the machine code (found in the line RAND USR #), the name of the MC, and SCREEN# programs.
2. LOAD the MC program (LOAD "MC" CODE)
3. PEEK the MC program looking for the length. This can be done by looking in the MC until you find a long group of 0's (say 32).
4. SAVE "Basic"LINE 1  
SAVE "Screen"SCREEN#  
SAVE "MC"CODE #1,#2  
#1 is the starting address from RAND USR.  
#2 is the length of the MC routine determined by subtracting the starting address from the ending address found when you peeked the MC and found the start of the 0's or by using the top of memory 65535 (IE, say start address from RAND USR 42000: 65535-42000 = 23535 then SAVE "MC"CODE 42000, 23535).

Try this short program making sure that you reload the basic loader program should you ever write part of it. This will help you find the end of the machine code program.

```
1 LET k=starting address of MC
2 IF PEEK k=0 THEN PRINT k
3 LET k=k+1
4 GOTO 2
```

CAUTION: DO NOT TRY TO VERIFY THE SCREEN DISPLAY. IT WILL NOT VERIFY.

#####

## GETTING THE IN ON THE 2068

by Dennis Jurries

The are a possible of 65536 I/O ports on the 2068. These are used by the computer for communicating with things like the keyboard or the printer, and the can be controlled from BASIC by using the IN statement.

IN is a function like PEEK  
IN address

The keyboard is divided up into 8 half rows of 5 keys each.

IN 65278	reads	CAPS SHIFT to U
IN 65022	reads	A to G
IN 64510	reads	Q to T
IN 63486	reads	1 to 5
IN 61438	reads	0 to 6
IN 57342	reads	P to 7
IN 49150	reads	ENTER to H
IN 32766	reads	SPACE to B

The value of these addresses when no key is depressed is 31. Starting from the outside of the keyboard and moving towards the center the values are 30, 29, 27, 23, & 15. On some models of the spectrum; no key depressed is 255, and the other values are 254, 253, 251, 247, & 239.

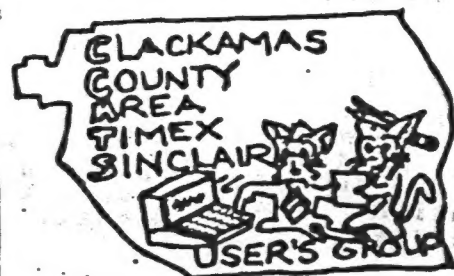
The following program illustrates this.

```
10 FOR n=0 TO 7:REM half-row #
20 LET a=254+255*(255-2^n)
30 PRINT AT 0,0;IN a:GOTO 30
```

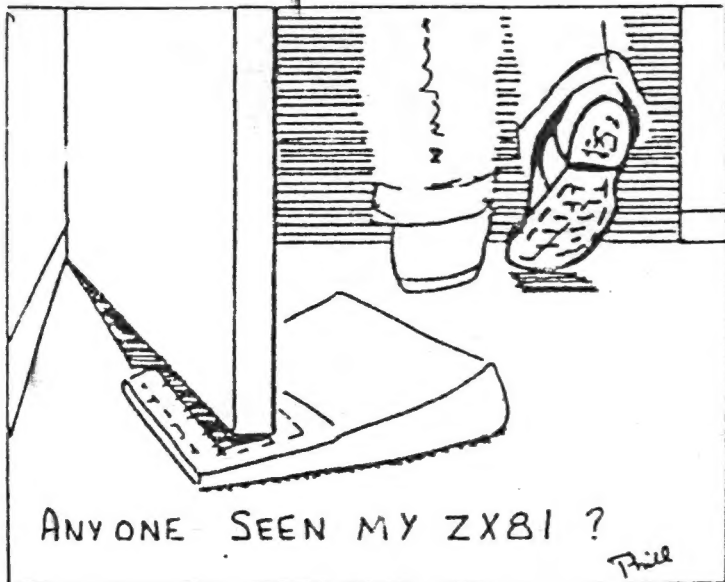
When you finish with each half row, press BREAK and then type NEXT n.

The IN function can be used in many ways in a program. One way is to use it to change a position of something on the screen. Say the variable x has some value; LET x=x-(IN65022=30). This will decrease the value of x by 30 only if the A key is depressed.

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(Our thanks to Paul Hill of the  
Sinclair Users Society of  
Johnson City, NY.)

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For those of you who like to  
look at machine code. What does  
this do?

```
BE EF
BO OZ E
CA 7F 000
GA AL IC
DE 7E RG ENT
BA CO N
POP
DEC CA F
PUSH BR 00 H
```

1911 6Uddoys s3j1m  
AW ST 5141 '3X3191W AW 'AJJOS

#####

CCAT/S

1419 1/2 7th Street  
Oregon City, OR 97045

# XXXXXXXXXXXXXXXXXXXX CLASSIFIED ADS =====

This is your space. Your space  
to let any and all know that you  
have something for sale or trade  
that someone else may have a use  
for. As stated before, the rates  
are as follows:

\$ .50/ LINE FOR CLASSIFIED  
\$3.00/ 1/4 PAGE  
\$5.50/ 1/2 PAGE  
\$10 / FULL PAGE

We welcome all ads pertaining to  
any T/S related product.

=====  
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## RMG ENTERPRISES (503) 655-7484

Just wanted to take this space  
to tell all of our loyal  
customers that we are getting  
new items all the time.

If there is anything that you  
may wish to know about, just  
give us a call.

We want to help if possible.

THANK YOU

FOR YOUR CONTINUED SUPPORT!

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